Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_

Check for understanding by doing the following problems.

Simplify

1. 2. 3.

Solve.

4. x = \_\_\_\_\_ 5. x= \_\_\_\_\_\_\_ 6. x = \_\_\_\_\_\_

Find distance and slope for the given points.

(8, 2) (2, -4)

7. Distance= \_\_\_\_\_\_\_\_\_\_ 8. Slope = \_\_\_\_\_\_\_\_\_\_\_

9. Write the equation of a line, in point slope form (look to packet if you forget what it is), given slope = ¼ and containing the point (8, 2).

10. Write the equation of a line in slope intercept form given the points (0, 6) and (4, 4).

11. Write the equation of a line parallel to question 10 with a y-intercept of 5.

12. Write the equation of a line perpendicular to question 10 with a y-intercept of 2.

Factor and solve.

13. x2 – 6x – 16 = 0 14. x2 – 10x + 24 = 0 15. 2x2 + 5x + 3 = 0